

Recombinant Human Fibroblast Growth Factor 23

Cat. No. FGF23-618H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FGF23 protein was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	The FGF family plays a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF23, FGF21 and FGF19 constitute an atypical FGF subfamily whose ligands act as circulating hormones and require the participation of a Klotho protein as a co-receptor for their signaling. FGF23 is a bone-derived hormone that acts in the kidney to regulate phosphate homeostasis and vitamin D metabolism. The signaling receptor for FGF23, a Klotho-FGFR1 (IIIc) complex, is an essential regulator of the renal sodium phosphate co-transporter and key vitamin D-metabolizing enzymes CYP27B1 and CYP24A1.
Form	Supplied as a lyophilized powder.
Purity	> 95% by SDS - PAGE
Sequence	Region of FGF23 protein corresponding to amino acids MYPNASPLLGS SSWGGLIHLY TATARN SYHL QIHKNGHVDG APHQTIYSAL MIRSEDAGFV VITGVMSRRY LCMDFRGNIF GSHYFDPENC RFQHQTLENG YDVYHSPQYH FLVSLGRAKR AFLPGMNPPP YSQFLSRRNE IPLIHFNTPI PRRHTRSAED

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DSERDPLNVL KPRARMTPAP ASCS

Molecular Mass 22.5 kDa

Applications Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions.

Endotoxin Levels Endotoxin level is less than 0.1 ng per ug (1 EU/ug).

Storage Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name FGF23 fibroblast growth factor 23 [Homo sapiens]

Official Symbol FGF23

Synonyms FGF23; fibroblast growth factor 23; ADHR; HYPF; HPDR2; PHPTC; FGF-23; Phosphatonin; UNQ3027/PRO9828; Fibroblast growth factor 23 N-terminal peptide; Fibroblast growth factor 23 C-terminal peptide; tumor-derived hypophosphatemia inducing factor; Tumor-derived hypophosphatemia-inducing factor

Gene ID 8074

mRNA Refseq NM_020638

Protein Refseq NP_065689

MIM 605380

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UniProt ID	Q9GZV9
Chromosome Location	12p13.3
Pathway	MAPK signaling pathway; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton; Signaling by FGFR
Function	growth factor activity
PDBrendering based on 2p39.	